

CLAIMS

I claim:

1. A transfer tape comprising:
a band-shaped ribbon;
an adhesive film coated on the band-shaped ribbon, wherein the adhesive film is transferred from the band-shaped ribbon onto a targeted object for a length along which the band-shaped ribbon is in contact with the targeted object; and
particles contained in the adhesive film, wherein the particles facilitate cutting of the adhesive film near an end of the length when the adhesive film is pulled at the end of the length in a direction angled from the targeted object.
2. A transfer tape according to Claim 1, wherein the particles have a Mohs hardness of about 6 or greater.
3. A transfer tape according to Claim 1, wherein the particles have a maximum grain diameter of about 5-30 μm and a particle length of about 30-500 μm .
4. A transfer tape according to Claim 1, wherein a content ratio of the particles is about 1.0-3.0 wt.%.
5. A transfer tape according to claim 1, wherein the particles have at least one sharpened end.
6. A transfer tape according to claim 5, wherein the particles are in a shape of a needle.
7. A transfer tape according to claim 5, wherein the particles are in a shape of a steeple.
8. A transfer tape according to claim 1, wherein some of the particles are in a shape of a rod.
9. A transfer tape according to claim 8, wherein the rod has a diameter and a length a ratio of which is 1:3 or greater.

10. A transfer tape according to claim 8, wherein the rod-shaped particles constitute 90% or more of all the particles contained in the adhesive film.

11. A transfer tape according to claim 1, wherein the particles comprise any of glass, wollastonite, sepiolite, chrysotile, aluminum borate whiskers, titanium oxide whiskers and potassium titanate whiskers.

12. A transfer tape according to Claim 1, wherein the adhesive film comprises any of an acrylic-based adhesive, a rubber-based adhesive and a silicone-based adhesive.

13. A transfer tape according to Claim 1, wherein the band-shaped ribbon comprises any of polyethylene terephthalate, polyethylene, polypropylene and polyvinyl chloride.

14. A transfer tape according to Claim 1, wherein the band-shaped ribbon is treated with a release agent on either or both sides thereof.

15. A transfer tape according to claim 1, wherein the band-shaped ribbon has a thickness of between about 5 μm and about 60 μm .

16. A transfer tape according to claim 15, wherein the band-shaped ribbon has a thickness of between about 15 μm and about 55 μm .

17. A transfer tape according to claim 1, wherein the adhesive film has a thickness of between about 15 μm and about 30 μm .

18. A transfer tool comprising:
a band-shaped ribbon;
an adhesive film coated on the band-shaped ribbon;
a dispenser that is brought onto the targeted object, slid thereon and brought off the targeted object, wherein the band-shaped ribbon travels at the dispenser as the dispenser slides on the targeted object, thereby transferring the adhesive film from the band-shaped ribbon on the targeted object; and

particles contained in the adhesive film, wherein when the dispenser is brought off the targeted object, the particles facilitate cutting of the adhesive film around a point where the adhesive film takes off the targeted object.

19. A transfer tool according to Claim 18, wherein the particles have a Mohs hardness of about 6 or greater.

20. A transfer tool according to Claim 18, wherein the particles have a maximum grain diameter of about 5-30 μm and a particle length of about 30-500 μm .

21. A transfer tool according to Claim 18, wherein the particle content is about 1.0-3.0 wt.%.

22. A transfer tool according to claim 18, wherein the particles have at least one sharpened end.

23. A transfer tool according to claim 22, wherein the particles are in a shape of a needle.

24. A transfer tool according to claim 22, wherein the particles are in a shape of a steeple.

25. A transfer tool according to claim 18, wherein some of the particles in a shape of a rod.

26. A transfer tool according to claim 25, wherein the rod has a diameter and a length a ratio of which is 1:3 or greater.

27. A transfer tool according to claim 25, wherein the rod-shaped particles constitute 90% or more of all the particles contained in the adhesive film.

28. A transfer tool according to claim 18, wherein the particles comprise any of glass, wollastonite, sepiolite, chrysotile, aluminum borate whiskers, titanium oxide whiskers and potassium titanate whiskers.

29. A transfer tool according to Claim 18, wherein the adhesive film comprises any of an acrylic-based adhesive, a rubber-based adhesive and a silicone-based adhesive.

30. A transfer tool according to Claim 18, wherein the band-shaped ribbon comprises any of polyethylene terephthalate, polyethylene, polypropylene and polyvinyl chloride.

31. A transfer tool according to Claim 18, wherein the band-shaped ribbon is treated with a release agent on either or both sides thereof.

32. A transfer tool according to claim 18, wherein the band-shaped ribbon has a thickness of between about 5 μm and about 60 μm .

33. A transfer tool according to claim 32, wherein the band-shaped ribbon has a thickness of between about 15 μm and about 55 μm .

34. A transfer tool according to claim 18, wherein the adhesive film has a thickness of between about 15 μm and about 30 μm .

35. A method for transferring an adhesive film onto a targeted object, comprising the steps of:

bringing a band-shaped ribbon into contact along a width thereof with the targeted object, wherein the band-shaped ribbon is coated with an adhesive film that contains particles having at least one sharpened end;

shifting the contact between the band-shaped ribbon and the targeted object through a length of the band-shaped ribbon, thereby transferring the adhesive film onto the targeted object; and

bringing the band-shaped ribbon off the targeted object, whereupon the particles facilitate cutting of the adhesive film around a point where the adhesive film takes off the targeted object.